



# Shoring and Ground Improvement

Shoring is the process of constructing a temporary structure to hold the sides up on an excavation or support an adjacent building or land so work can be done safely. Shoring can be vertical, horizontal, or angled. For example, shoring is used to relieve the load of a masonry wall while it is being repaired or reinforced. Shoring is essential to maintaining the safety of workers and adjacent buildings. RP Constructors has shored industrial job sites, civil engineering projects, and more. We use an excavator-mounted MKT hammer that allows us to mobilize quickly and get into spaces a normal crane cannot. That makes us your ideal choice as a shoring partner.

## Why You Need Us

The Occupational Safety and Health Administration (OSHA) requires that shoring, ground improvement, or an earth retention system be installed for every hole more than four feet in depth to protect workers. The deeper you dig, the more complex the requirements due to soil conditions. For example, soil contains rock, clay, and sand and each requires differing amounts of support, rock being the least and sand being the most. Professional engineers must approve and sign off on any hole deeper than 20 feet. RP Constructors has the advantage of in-house engineering support. This not only cuts out hiring a third party but gives us the ability to respond quickly to field conditions, a huge value to our client base.



## Types of Shoring



### SHEET PILE

We both own and rent sheet pile shoring. It is installed at the job site and left for the duration of the project. It is removed by us once the project is complete. Sheet pile has been used for seepage cutoff during drainage work.



### SOLDIER PILE WALLS

Soldier pile walls are used in conjunction with piles. Once the pile is driven into the ground, lagging is placed horizontally between them. Soldier pile walls have been routinely installed on job sites to hold back the soil.



### TRENCH SHIELDS

Trench shields are placed inside trenches to protect workers from collapse. Trench shields are commonly used in utility work. Other shoring systems include a hybrid option that combines sheet pile with steel plates, secant pile walls, tangent piles, cofferdams, and many more.

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